

WEST

End of Result Set



Generate Collection

L2: Entry 2 of 2

File: USPT

Feb 21, 1995

US-PAT-NO: 5392351

DOCUMENT-IDENTIFIER: US 5392351 A

TITLE: Electronic data protection system

DATE-ISSUED: February 21, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|----------|-------|----------|---------|
| Hasebe; Takayuki | Kawasaki | N/A | N/A | JPX |
| Akiyama; Ryota | Kawasaki | N/A | N/A | JPX |
| Yoshioka; Makoto | Kawasaki | N/A | N/A | JPX |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|-----------------|----------|-------|----------|---------|-----------|
| Fujitsu Limited | Kanagawa | N/A | N/A | JPX | 03 |

APPL-NO: 8/ 031339

DATE FILED: March 15, 1993

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|----------|----------------|
| JP | 4-058048 | March 16, 1992 |

INT-CL: [6] H04L 9/32

US-CL-ISSUED: 380/4; 380/25

US-CL-CURRENT: 705/51; 380/277, 713/193

FIELD-OF-SEARCH: 380/4, 380/25

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|---------|---------------|--------------------|---------|
| <input type="checkbox"/> | 4683553 | July 1987 | Mollier | 380/4 |
| <input type="checkbox"/> | 4757534 | July 1988 | Matyas et al. | 380/25 |
| <input type="checkbox"/> | 4850017 | July 1989 | Matyas, Jr. et al. | N/A |
| <input type="checkbox"/> | 5010571 | April 1991 | Katznelson | 380/4 |
| <input type="checkbox"/> | 5058162 | October 1991 | Santon et al. | 380/4 X |
| <input type="checkbox"/> | 5065429 | November 1991 | Lang | 380/4 X |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|-------------|---------|-------|
| 0114522 | August 1984 | EPX | |
| 0268139 | May 1988 | EPX | |
| 3-83132 | April 1991 | JPX | |
| 88-02202 | March 1988 | WOX | |

OTHER PUBLICATIONS

Computer vol. 17, No. 4, (Apr. 1984) Long Beach, Calif., USA; Combatting Software Piracy by Encryption and Key Management.

ART-UNIT: 222

PRIMARY-EXAMINER: Barron, Jr.; Gilberto

ATTY-AGENT-FIRM: Nikaido, Marmelstein, Murray & Oram

ABSTRACT:

An electronic data protection system for protecting electronic data from illegal copying by a third party, includes: a storage medium for storing an encrypted electronic data, a medium number and encrypted permission information; a vendor computer having a personal key generating unit for generating a medium key based on the medium number, an electronic data decrypting key, and an encrypting unit for encrypting the electronic data decrypting key based on the medium key to generate the encrypted permission information; and a user computer having a personal key generating unit for generating a medium key based on the medium number, a decrypting unit for decrypting the encrypted permission information based on the medium key to generate the electronic data decrypting key which is the same as the electronic data decrypting key of the vendor computer, and a decrypting unit for decrypting the encrypted electronic data based on the electronic data decrypting key to generate a plain text electronic data.

10 Claims, 22 Drawing figures

WEST

Generate Collection

L2: Entry 1 of 2

File: USPT

Nov 3, 1998

US-PAT-NO: 5832083

DOCUMENT-IDENTIFIER: US 5832083 A

TITLE: Method and device for utilizing data content

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Iwayama; Noboru | Kawasaki | N/A | N/A | JPX |
| Torii; Naoya | Kawasaki | N/A | N/A | JPX |
| Hasebe; Takayuki | Kawasaki | N/A | N/A | JPX |
| Takenaka; Masahiko | Kawasaki | N/A | N/A | JPX |
| Matsuda; Masahiro | Kawasaki | N/A | N/A | JPX |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|-----------------|----------|-------|----------|---------|-----------|
| Fujitsu Limited | Kawasaki | N/A | N/A | JPX | 03 |

APPL-NO: 8/ 509285

DATE FILED: July 31, 1995

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|----------|-------------------|
| JP | 6-252623 | September 9, 1994 |

INT-CL: [6] H04K 1/00

US-CL-ISSUED: 380/4; 380/25

US-CL-CURRENT: 705/51; 380/239, 380/241, 380/281

FIELD-OF-SEARCH: 380/4, 380/25, 380/21

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|----------------|----------------|----------------|-------|
| <input type="checkbox"/> | <u>4247106</u> | January 1981 | Jeffers et al. | N/A |
| <input type="checkbox"/> | <u>4439670</u> | March 1984 | Bassett et al. | N/A |
| <input type="checkbox"/> | <u>4446519</u> | May 1984 | Thomas | N/A |
| <input type="checkbox"/> | <u>4484217</u> | November 1984 | Block et al. | N/A |
| <input type="checkbox"/> | <u>4558176</u> | December 1985 | Arnold et al. | N/A |
| <input type="checkbox"/> | <u>4590557</u> | May 1986 | Lillie | N/A |
| <input type="checkbox"/> | <u>4646234</u> | February 1987 | Tolman et al. | N/A |
| <input type="checkbox"/> | <u>4649510</u> | March 1987 | Schmidt | N/A |
| <input type="checkbox"/> | <u>4654799</u> | March 1987 | Ogaki et al. | N/A |
| <input type="checkbox"/> | <u>4658093</u> | April 1987 | Hellman | N/A |
| <input type="checkbox"/> | <u>4672554</u> | June 1987 | Ogaki | N/A |
| <input type="checkbox"/> | <u>4674055</u> | June 1987 | Ogaki et al. | N/A |
| <input type="checkbox"/> | <u>4740890</u> | April 1988 | William | N/A |
| <input type="checkbox"/> | <u>4780905</u> | October 1988 | Cruts et al. | N/A |
| <input type="checkbox"/> | <u>4787050</u> | November 1988 | Suzuki | N/A |
| <input type="checkbox"/> | <u>4816653</u> | March 1989 | Anderl et al. | N/A |
| <input type="checkbox"/> | <u>4816654</u> | March 1989 | Anderl et al. | N/A |
| <input type="checkbox"/> | <u>4817140</u> | March 1989 | Chandra et al. | N/A |
| <input type="checkbox"/> | <u>4864516</u> | September 1989 | Gaither et al. | N/A |
| <input type="checkbox"/> | <u>4879645</u> | November 1989 | Tamada et al. | N/A |
| <input type="checkbox"/> | <u>4949257</u> | August 1990 | Orbach | N/A |
| <input type="checkbox"/> | <u>4999806</u> | March 1991 | Chernow et al. | N/A |
| <input type="checkbox"/> | <u>5006849</u> | April 1991 | Baarman et al. | N/A |
| <input type="checkbox"/> | <u>5008814</u> | April 1991 | Mathur | N/A |
| <input type="checkbox"/> | <u>5014234</u> | May 1991 | Edwards, Jr. | N/A |
| <input type="checkbox"/> | <u>5016009</u> | May 1991 | Whiting et al. | N/A |
| <input type="checkbox"/> | <u>5051822</u> | September 1991 | Rhoades | N/A |
| <input type="checkbox"/> | <u>5056009</u> | October 1991 | Mizuta | N/A |
| <input type="checkbox"/> | <u>5103392</u> | April 1992 | Mori | N/A |
| <input type="checkbox"/> | <u>5103476</u> | April 1992 | Waite et al. | N/A |
| <input type="checkbox"/> | <u>5166886</u> | November 1992 | Molnar et al. | N/A |
| <input type="checkbox"/> | <u>5181107</u> | January 1993 | Rhoades | N/A |
| <input type="checkbox"/> | <u>5199066</u> | March 1993 | Logan | N/A |
| <input type="checkbox"/> | <u>5214697</u> | May 1993 | Saito | N/A |
| <input type="checkbox"/> | <u>5222134</u> | June 1993 | Waite et al. | N/A |
| <input type="checkbox"/> | <u>5245330</u> | September 1993 | Wassink | N/A |
| <input type="checkbox"/> | <u>5267171</u> | November 1993 | Suzuki et al. | N/A |

OTHER PUBLICATIONS

Japanese Patent Laid-Open Publication No. 57-127249, Aug. 7, 1982 (equivalent to Japanese patent Publication No. 61-22815).
 Japanese Patent Laid-Open Publication No. 5-89363, Apr. 9, 1993.
 Japanese Patent Laid-Open Publication No. 5-266575, Oct. 15, 1993.
 Japanese Patent Laid-Open Publication No. 5-298085, Nov. 12, 1993.
 Japanese Patent Laid-Open Publication No. 6-95871, Apr. 8, 1994.

ART-UNIT: 222

PRIMARY-EXAMINER: Cain; David G.

ATTY-AGENT-FIRM: Staas & Halsey

ABSTRACT:

The present invention provides a data content utilizing device having data storing section for storing information obtained by encoding data contents and content identification information specifying the data contents, a utilization permitting device for generating utilization permission information used to decode data contents desired by a user and information converting section for loading data contents requested by the user from the data storing section and decoding the data contents only in the case where utilization permission information is generated by the utilization permitting device.

43 Claims, 21 Drawing figures

WEST**End of Result Set**

Generate Collection

Print

L1: Entry 3 of 3

File: USPT

Dec 15, 1992

US-PAT-NO: 5171755

DOCUMENT-IDENTIFIER: US 5171755 A

TITLE: Emulsions of highly fluorinated organic compounds

DATE-ISSUED: December 15, 1992

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------------|-------|----------|---------|
| Kaufman; Robert J. | University City | MO | | |
| Richard; Thomas J. | University City | MO | | |

US-CL-CURRENT: 514/749; 514/759, 514/832, 514/833, 514/937, 514/975

ABSTRACT:

Improved emulsions of highly fluorinated organic compounds. The emulsions comprise a highly fluorinated organic compound, an oil, that is not substantially surface active and not significantly water soluble, and a surfactant. They are characterized by a well-defined relationship in the relative amounts of the three components.

16 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

WEST☐ **Generate Collection** **Print**

L1: Entry 1 of 3

File: USPT

Nov 11, 1997

US-PAT-NO: 5687331

DOCUMENT-IDENTIFIER: US 5687331 A

**** See image for Certificate of Correction ****

TITLE: Method and system for displaying an animated focus item

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Volk; Patrick M. | Kirkland | WA | | |
| Robin; Michael Breed | Redmond | WA | | |
| Thorne, III; Edwin | Seattle | WA | | |
| Kapell; JoGene | Bellevue | WA | | |

US-CL-CURRENT: 345/840; 345/823, 345/861, 345/962, 345/977

ABSTRACT:

A viewer interface is disclosed for use in an interactive television network operative for providing an animated focus item in association with a control item to indicate that the control item is in a state responsive to commands from a user input device. An "animation" is any form of highlighting that is non-static, including but not limited to flashing, varying illumination, varying size, varying shape, varying position, varying color, varying display components, a moving and/or changing cartoon type image, a video image, a sound track, or a combination of these elements. Selection of the control item to receive focus and selection of options presented by control items having focus are accomplished by viewer interaction with the remote control unit, and such selections do not require a keyboard or mouse to indicate the viewer's desire to change the focus from one control item to another or to select an option. The user interface is also suitable for use in a general computing environment as well as in an interactive television environment.

77 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 21

WEST**End of Result Set**☐ **Generate Collection** **Print**

L2: Entry 1 of 1

File: USPT

Oct 21, 1997

US-PAT-NO: 5680452

DOCUMENT-IDENTIFIER: US 5680452 A

TITLE: Distributed cryptographic object method

DATE-ISSUED: October 21, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|----------|-------|----------|---------|
| Shanton; M. Greg | Manassas | VA | | |

US-CL-CURRENT: 713/167; 340/5.74, 380/269, 380/28

ABSTRACT:

A system for increasing the security of a computer system, while giving an individual user a large amount of flexibility and power. To give users the most power and flexibility, a standard object that has the capability to embed objects is used. To allow users even more flexibility, a standard object tracking mechanism is used that allows users to distribute to other individuals multiple encrypted objects embedded in a single encrypted object. By effecting compartmentalization of every object by label attributes and algorithm attributes, multi-level multimedia security is achieved. Label attributes are used to restrict access to objects based on location, group, or other criteria and may specify personal access. Access type, such as read-only, write-only, and print-only may be specified. Nested embedded objects may be accessed directly through selection from a header array.

17 Claims, 8 Drawing figures

Exemplary Claim Number: 14

Number of Drawing Sheets: 8

WEST☐

L1: Entry 2 of 3

File: USPT

Sep 30, 1997

US-PAT-NO: 5673401

DOCUMENT-IDENTIFIER: US 5673401 A

TITLE: Systems and methods for a customizable sprite-based graphical user interface

DATE-ISSUED: September 30, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|----------|-------|----------|---------|
| Volk; Patrick Michael | Kirkland | WA | | |
| Robin; Michael Breed | Redmond | WA | | |
| Thorne, III; Edwin | Seattle | WA | | |
| Kapell; JoGene | Bellevue | WA | | |

US-CL-CURRENT: 725/139; 345/763, 345/765, 345/853, 725/131, 725/133, 725/60, 725/61, 725/87

ABSTRACT:

An object-oriented system for generating and displaying control items that allow users of an interactive network to recognize and select control functions via a graphical user interface. The manipulation of the control items on a display screen is linked to a set-top terminal associated with the interactive network. The control items, which can be visible or audible, are associated with control objects. Control objects are arranged in a hierarchy, and can contain one or more child control objects. Attributes of a child control object are inherited from an ancestor control object. A control item can be graphically manipulated independently by drawing the control item into its own sprite, or can be manipulated by drawing the control item into the sprite of a parent. The system provides building blocks of control elements that can be composed and customized to produce versatile interfaces for applications and content.

28 Claims, 24 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15